Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-21-46** **Date: 11-08-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drain at RR layout and vinayakanlayout in ward no.12 Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th cross, 17 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-2018
Sample ID No	:	2018-11-21-46 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-08-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.44	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.6	225m^2/kg, Min
3	Density (gm/cc)	3.23	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಡಿಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-21-46** **Date: 11-08-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drain at RR layout and vinayakanlayout in ward no.12 Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th cross, 17 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-08-2018
Sample ID No	:	2018-11-21-46 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-08-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-11-21-46** **Date: 11-08-2018**

Sample ID No : 2018-11-21-46 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-21-46** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at RR layout and vinayakanlayout in ward no.12 Shettyhalli Sub Division

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th cross, 17 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-2018

Sample ID No : 2018-11-21-46 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/08/2018	14/09/2018	150.28 X 150.34 X 150.25	22593	8.314	506.1	22.4	22.1
2	Drain Concrete	M20	17/08/2018	14/09/2018	150.34 X 150.28 X 150.39	22593	8.322	499.3	22.1	
3	Drain Concrete	M20	17/08/2018	14/09/2018	150.39 X 150.40 X 150.32	22619	8.372	495.3	21.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-21-46** **Date: 24/08/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at RR layout and vinayakanlayout in ward no.12 Shettyhalli Sub Division

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th cross, 17 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-2018

Sample ID No : 2018-11-21-46 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/08/2018	24/08/2018	150.37 X 150.22 X 150.35	22589	8.368	413.4	18.3	18.0
2	Drain Concrete	M20	17/08/2018	24/08/2018	150.31 X 150.32 X 150.30	22595	8.349	399.9	17.7	
3	Drain Concrete	M20	17/08/2018	24/08/2018	150.33 X 150.37 X 150.30	22605	8.382	404.6	17.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-21-46** **Date: 25/08/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at RR layout and vinayakanlayout in ward no.12 Shettyhalli Sub Division

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th cross, 17 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-2018

Sample ID No : 2018-11-21-46 /17

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	18/08/2018	25/08/2018	149.85 X 150.44 X 149.51	22543	8.198	414.8	18.4	18.2
2	Drain Concrete	M20	18/08/2018	25/08/2018	150.37 X 150.20 X 150.44	22586	8.140	411.1	18.2	
3	Drain Concrete	M20	18/08/2018	25/08/2018	149.71 X 151.02 X 150.44	22609	8.195	404.7	17.9	

Note:

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